



This listing of claims ~~will supersede~~ all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(Currently Amended)** A catalyst containing at least one group VIII element and at least molybdenum and/or tungsten, said elements being present at least in part in the catalyst in the dry state in the form of at least one heteropolyanion having a structural formula  $M_xAB_6O_{24}H_6C_{(3-2x)} \cdot tH_2O$  (I);  $M_xAB_6O_{24}H_6C_{(4-2x)} \cdot tH_2O$  (I');  $M_xA_2B_{10}O_{38}H_4C_{(6-2x)} \cdot tH_2O$ ;  $M_xA_2B_{10}O_{38}H_4C_{(8-2x)} \cdot tH_2O$  (I'') ; or  $M_xA_2B_{10}O_{38}H_4C_{(7-2x)} \cdot tH_2O$  (I'''); wherein M is cobalt, nickel, iron, copper, zinc, or mixtures thereof, A is an element from of group VIII of the periodic table for formulae I and I' or one or elements from of group VIII of the periodic table for formulae I'', I''' and I'''', B is molybdenum and/or tungsten and C is an  $H^+$  ion and/or a  $(NR_1R_2R_3R_4)^+$  type ammonium ion, in which wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub>, which may be identical or different, and correspond either to a hydrogen atom or to an alkyl group, cesium, potassium, sodium or mixtures thereof, t is a number between from 0 and to 15 and x is 0 to 3/2 in (I), 0 to 2 in (I'), 0 to 3 in (I''), 0 to 4 in (I''') and 0 to 7/2 in (I''') and wherein the number of bonds connecting the group VIII element or elements with the molybdenum and/or tungsten having a length of 3.6 angstroms or less is greater than 2.
2. **(Previously Presented)** A catalyst according to claim 1, wherein more than 2 bonds connecting the group VIII element or elements with the molybdenum and/or tungsten have a length of 3.5 angstroms or less in the catalyst in the dry state.
3. **(Previously Presented)** A catalyst according to claim 1, wherein element A is selected from the group consisting of nickel, cobalt and iron.

4. **(Previously Presented)** A catalyst according to claim 1 comprising, in the dry state, 0.01% to 100% by weight with respect to the total catalyst weight of at least one heteropolyanion with a structural formula selected from the group consisting of formulae I, I', I'', I''' and I''''.
5. **(Previously Presented)** A catalyst according to claim 1, comprising at least one porous mineral matrix.
6. **(Previously Presented)** A catalyst according to claim 5, further comprising a zeolitic molecular sieve.
7. **(Previously Presented)** A catalyst according to claim 5 comprising, in the dry state, as a % by weight with respect to the total catalyst weight, 1% to 99.9% of at least one porous mineral matrix, 0.1% to 99% by weight of at least one heteropolyanion having a structural formula selected from the group consisting of formulae I, I', I'', I''' and I'''' and 0 to 80% by weight of at least one zeolitic molecular sieve.
8. **(Previously Presented)** A catalyst according to claim 1, wherein the heteropolyanion has a structural formula selected from the group consisting of  $\text{Co}_3\text{Co}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4$ ,  $\text{Ni}_{3/2}\text{CoMo}_6\text{O}_{24}\text{H}_6$ ,  $\text{Co}_2\text{CoMo}_6\text{O}_{24}\text{H}_6$ ,  $\text{Ni}_3\text{Co}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4$ ,  $\text{Co}_4\text{Ni}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4$ ,  $\text{Co}_2\text{NiMo}_6\text{O}_{24}\text{H}_6$ ,  $\text{Ni}_2\text{CoMo}_6\text{O}_{24}\text{H}_6$ ,  $\text{Co}_{3/2}\text{CoMo}_6\text{O}_{24}\text{H}_6$ , and  $\text{Ni}_2\text{NiMo}_6\text{O}_{24}\text{H}_6$ .
9. **(Previously Presented)** A catalyst according to claim 1, which has undergone a sulphurization treatment.
10. **(Previously Presented)** In a catalytic process comprising hydrorefining and/or hydroconverting a hydrocarbon feed, said process comprising subjecting said feed to hydrorefining and/or hydroconverting conditions in the presence of a catalyst, the improvement wherein the catalyst is one according to claim 1.

11. **(Currently Amended)** A catalytic process according to claim 10 comprising conducting hydrogenation, hydrodenitrogenation, hydrodeoxygenation, hydrodearomatization, hydrodesulphurization, hydrodemetallization, hydroisomerization, hydrodealkylation or dehydrogenation reactions.
12. **(Previously Presented)** In a catalytic process comprising conducting hydrocracking of a hydrocarbon feed, said process comprising subjecting said feed to hydrorefining and/or hydroconverting conditions in the presence of a catalyst, the improvement wherein the catalyst is according to claim 1.
13. **(Currently Amended)** A catalytic process according to claim 10, ~~in which~~ wherein said hydrocarbon feed contains at least one heteroatom.
14. **(Previously Presented)** A catalyst according to claim 8, wherein the heteropolyanion is  $\text{Co}_2\text{Mo}_{10}\text{O}_{38}\text{H}_4\text{Co}_3$ ,  $\text{CoMo}_6\text{O}_{24}\text{H}_6\text{Ni}_{3/2}$ , or  $\text{NiMo}_6\text{O}_{24}\text{H}_6\text{Ni}_2$ .